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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/657,481	09/08/2003	•	Richard Chiles	3515.1	2662
22886 75	10/17/2006			EXAM	INER
AFFYMETRI		LIN, JERRY			
ATTN: CHIÉF IP COUNSEL, LEGAL DEPT. 3420 CENTRAL EXPRESSWAY				ART UNIT	PAPER NUMBER
SANTA CLAR	SANTA CLARA, CA 95051			1631	
			DATE MAILED: 10/17/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/657,481	CHILES ET AL.			
		Examiner	Art Unit			
		Jerry Lin	1631			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. lely filed the mailing date of this communication. O (35 U.S.C. § 133).			
Status						
2a)⊠	Responsive to communication(s) filed on <u>02 At</u> This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims						
5) □ 6) ☑ 7) □ 8) □ Application	Claim(s) 1-7,13-20 and 26-37 is/are pending in 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-7,13-20 and 26-37 is/are rejected. Claim(s) is/are objected to. Claim(s) is/are subject to restriction and/or on Papers The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the content of the content	vn from consideration.  relection requirement.  r.  epted or b) □ objected to by the E				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	nder 35 U.S.C. § 119					
12)[/ a)[	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the prior  application from the International Bureau see the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No d in this National Stage			
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	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da				
3) Infom	nation Disclosure Statement(s) (PTO/SB/08)  r No(s)/Mail Date	5) Notice of Informal P. 6) Other:				

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#### **DETAILED ACTION**

1. Applicants' arguments, filed August 2, 2006, have been fully considered and they are not deemed to be persuasive. The following rejections are reiterated. They constitute the complete set presently being applied to the instant application.

## Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 30 and 35 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is unclear what is meant by "higher resolution". One interpretation is that higher resolution indicates that there are a greater number of pixels in the third pane. Another interpretation is that the third pane provides a magnification of the graphical representation of the second pane.

The term "higher" in claim 30 and 35 is a relative term which renders the claim indefinite. The term "higher" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

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## Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-11, 13-20, 26-29, 31-34, 36 and 37 are rejected under 35U.S.C. 102(e)(1) as being anticipated by Neville et al. (US 2005/0196771 A1).

The instant claims are drawn to a method of displaying genotype calls from probe array experiments using emission intensity values.

Regarding claims 1, 14, and 27, Neville et al. disclose receiving one or more sets of emission intensity data that is associated with a probe on a probe array (page 21, paragraph 0219-0220), generating a plurality of genotype calls which are based partially on the emission intensity values and using models (matrices) to specify nucleic acid compsition (page 5, paragraph 0033-0034); assembling and displaying the genotype calls in or more planes of a graphical user interface (page 6, paragraph 0051; Figure 16B). Neville et al. also disclose a computer with a memory (page 3, paragraph 0023), and implementing his method through executable code (page 24, paragraph 0252-page 25, paragraph 0254). Furthermore, Neville et al. disclose displaying one or more genotype calls in a first, second and third pane (figure 7, and figure 12A-j).

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Regarding claims 2-5 and 15-18, Neville et al. disclose where the emission intensity values are emissions from a scanned probe array (page 21, paragraph 0219-0220); wherein the probes are genotyping probes (page 4, paragraph 0029- page 5, paragraph 0032), sequencing probes (page 21, paragraphs 0218-0221), or SNP probes (page 21, paragraphs 0218-0221).

Regarding claims 6, 7, 19, and 20, Neville et al. disclose where the genotype call includes a A, G, C, T or (n) call (page 32, paragraph 0319) or a SNP call (page 32, paragraph 0319; Figure 17; page 33, paragraph 0331- page 34, paragraph 0333).

Regarding claims 8, 9, 21, and 22, Neville et al. disclose wherein the panes in a tabular format or a graphical format (Figures 1-21).

Regarding claims 10, 11, 23, 24, 29, 34 and 24, Neville et al. disclose wherein the graphical format includes SNP call quality (page 32, paragraph 0327-page 33, paragraph 0329; Figure 20) or genotype calls associated with a representation of a sequence (Figure 12A-J).

Regarding claims 13 and 26, Neville et al. disclose wherein the annotation information is received in response to the user and the annotation information is displayed (page 3, paragraph 0021 - page 4, paragraph 0024).

Regarding claims 28 and 33, Neville et al. disclose wherein the models may be no call, homozygote model, and a herterozygote model (page 32, paragraph 0319)

Regarding claims 31, 32, 36, and 37, Neville et al. discloses wherein any sequence may be inputted, thus allowing a selection of any region of a sequence (page 3, paragraph 0022).

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### Response to Arguments

The applicants state that Neville et al. does not disclose using a first, second, or third pane as required by claims 1, 14, and 27. The Examiner disagrees. Neville et al. does disclose using multiple panes (Figures 1-21).

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#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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#### Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerry Lin whose telephone number is (571) 272-2561. The examiner can normally be reached on 10:00am-6:30pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Wang, can be reached on (571) 272-0811. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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MICHAEL BORIN, PH.D. PRIMARY EXAMINER

JL